

This week, your homework will be given to you for the entire week! You will complete a portion of your portfolio each night so that Ms. Mason and Mr. Johnson can give you feedback on it as you go. Because of this, you will have a reduced amount of homework problems to complete. Don't lose this packet because you will be using it all week! You will need to have your Performance Event packet with you each day as well so that you can receive feedback.

Name: _____ T/P: _____

Form A

Homework #27

Geometry

Due: Tuesday, October 22nd

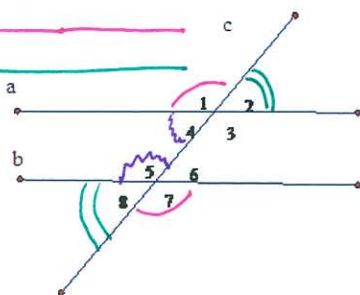
1) Complete the "Brainstorm" page of your Performance Event for the introduction (paragraph 1). Write your brainstorm in complete sentences in the space provided on your paper.

2) If lines a and b in the figure below are parallel, and intersected by the transversal, c , which of the following statements must be true?

** List angle relationship below **

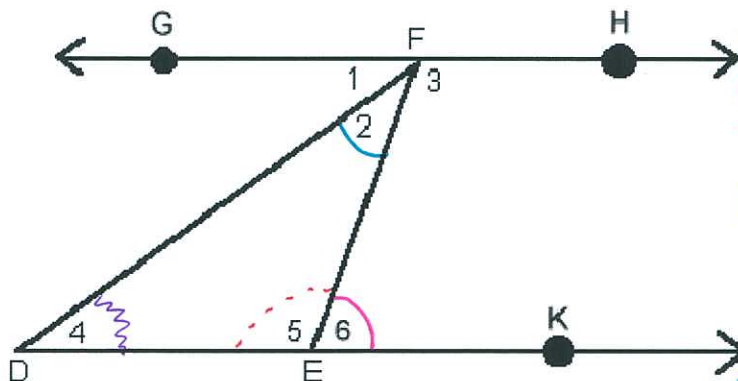
- I. $m\angle 1 = m\angle 7$
- II. $m\angle 2 = m\angle 8$
- III. $m\angle 4 + m\angle 5 = 180$

- A. I only
- B. III only
- C. I and II only
- D. I, II, and III
- None of the above



Justify your response.

3) Given that line GH is parallel to ray DK , Angle 6 = 75 degrees, and Angle 2 = 30 degrees, find the remaining angles on the diagram. List ALL angle relationships that you use!



① Label angles on diagram

② $\angle 5 \approx \angle 6$ are _____

Solve: \rightarrow _____

③ $\angle 2, 4, \angle 5$ create a triangle. Triangles sum to _____. Solve: \rightarrow _____

④ $\angle 6 \approx \angle 3$ are _____ interior \angle s. They are _____

Solve: \rightarrow _____

⑤ $\angle 1, 2, \angle 3$ are _____

Solve: \rightarrow _____

Name: _____ T/P: _____

Form A

Homework #28

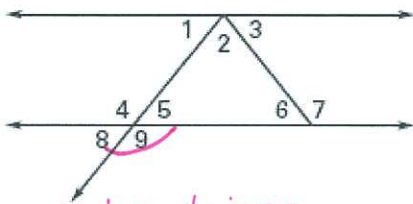
Geometry

Due: Wednesday, October 23rd

1) Grade Quiz #5 on the GRASP rubric. Read all parts of the rubric first.

2) Complete the "Brainstorm" page of your Performance Event for the explanation of how you graded Quiz #5 (paragraph 2). Write your brainstorm in complete sentences in the space provided on your paper.

1) In the figure below, lines a and b are parallel, and $m\angle 9 = 100^\circ$. Find $m\angle 1$.



Label relationships:

① $\angle 9$ & $\angle 4$ are _____.

② *write in $\angle 4$.

③ $\angle 4$ & $\angle 1$ are consecutive _____ angles. Therefore, they add to _____.

④ $m\angle 1 = \boxed{}$

2) The perimeter of a rectangle is 56 inches. The length is 4 times as long as the width. Find the area of the rectangle.

$$P_{\text{RECT}} = 56 \text{ in}$$

$$P = 2L + 2W$$

$L = 4$ times as long as width.

$$L = 4()$$

*substitute 56 in for P & substitute in the length:

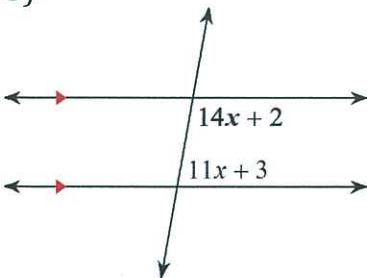
$$ = 2() + 2W \quad (\text{solve for } W)$$

$$ = W \quad (\text{plug in & solve for } L)$$

$$A = L \cdot W$$

$$A = $$

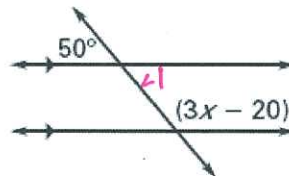
3)



A) What is the angle relationship you will use to solve for x ? (Hint: They're right next to each other & on the inside!)

B) Solve for x .

4) What is the value of x ?



A) What is the angle relationship you will use to solve for x ? (Hint: You need 2 relationships.)

① 50° & $\angle 1$ are _____ because they are _____.

② $\angle 1$ & $3x - 20$ are _____.

B) Solve for x .

(Hint: $\angle 1$ & $3x - 20$ are supplementary or congruent?)

Name: _____ T/P: _____

Form A

Homework #29

Geometry

Due: Thursday, October 24th

1) Grade HW #16 on the GRASP rubric. Read all parts of the rubric first.

2) Complete the "Brainstorm" page of your Performance Event for the explanation of how you graded HW #16 (paragraph 2). Write your brainstorm in complete sentences in the space provided on your paper.

1) The perimeter of a rectangle is 64 feet. The width of the rectangle is half as long as its length. Find the length and width of the rectangle.

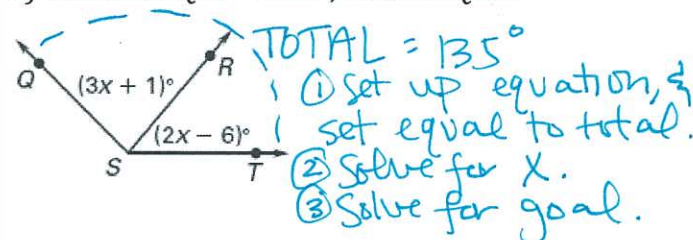
$$P = 64 \rightarrow P = 2L + 2W$$

$$W = \frac{1}{2}(\quad) \quad \text{*SUBSTITUTE}$$

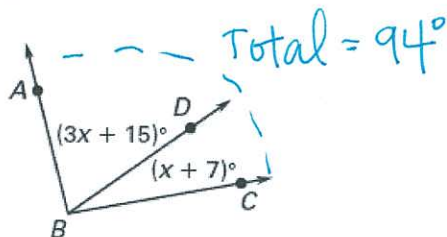
$$\bullet \text{ Solve for } L. 64 = 2L + 2\left(\frac{1}{2}L\right)$$

\bullet Substitute L in & solve for w .

2) Given $m\angle QST = 135^\circ$, find $m\angle QSR$.



3) Given $m\angle ABC = 94^\circ$, find $m\angle CBD$



4) A rectangle has an area of 60 meters, and a width of 4 meters. What is the perimeter of the rectangle?

- ① DRAW it.
- ② Label length of ALL sides
- ③ write out perimeter formula.
- ④ SOLVE!

Name: _____ T/P: _____

FORM A

Homework #30

Geometry

Due: Monday, October 28th

* FILL in all blanks or LaSalle *

1) Write the FINAL draft of your paper! It is due Monday. ENSURE that you have 600 words, which is almost 2 full pages.

2) Which of the following expresses the distance covered by a horse moving around a circular merry-go-round after 5 laps if the horse is 10 feet away from the center of revolution?

COMPLETE sentences in your OWN words.

G

R

Formula needed:
(Hint: merry-go-round is CIRCULAR)

A

I will _____ a picture. The horse is walking around a circle so I will use the _____ formula, which is: _____. I know the radius is _____ At the end I will _____ by 5 because the horse walks 5 laps.

S

(DRAW FIGURE)



*Substitute values into formula you need to use.
*Don't forget the last step! The horse walks around how many times?

P

PROOF in complete sentences! How do you know you used the correct formula?